PUBLIC NOTICE

FEDERAL COMMUNICATIONS COMMISSION
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Report No. 475 EXPERIMENTAL ACTIONS

The Commission, by its Office of Engineering and Technology, Experimental Licensing Branch, granted the following experimental applications during the period from 11/1/15 to 12/31/15:

- **AIRBUS DS GOVERNMENT SOLUTIONS, INC. WH2XYO 0378-EX-PL-2015**
  New experimental to operate on 6, 8 and 14 GHz
  For antenna testing
  Fixed: Plano (Collin), TS

- **ALFRED MANN FOUNDATION FOR SCIENTIFIC RESEARCH WI2XBL 0672-EX-PL-2015**
  New experimental to operate in 94-157 kHz for testing medical devices
  Mobile: Bethesda, MD and nationwide

- **ANDRO COMPUTATIONAL SOLUTIONS WI2XBP 0696-EX-PL-2015**
  New experimental to operate on 220 MHz for testing equipment for railroad use.
  Fixed & Mobile: Rome (Oneida), NY; Thendara (Herkimer), NY

- **ATMOSPHERIC & SPACE TECHNOLOGY RESEARCH ASSOCIATES (ASTRA), LLC. WI2XCA 0708-EX-PL-2015**
  New experimental to operate in 4.442965 - 4.647035 and 6.768965 - 6.993035 MHz for Ionospheric testing
  Fixed: Boulder (Boulder), CO

- **AT&T CORPORATION - AT&T LABS WI2XCD 0735-EX-PL-2015**
  New experimental to operate on 3 GHz for testing short range microwave systems
  Fixed: Middletown (Monmouth), NJ

- **AVITECH TECHNOLOGIES WI2XBJ 0664-EX-PL-2015**
  New experimental to operate on 9.6 GHz for testing radar to identify and track meteors
  Fixed: Waldorf (Charles), MD

- **BAE SYSTEMS CONTROLS INC. WI2XAR 0639-EX-PL-2015**
  New experimental to operate on frequencies between 10.519 and 10.531 GHz to support BAE systems manufacture of radar units.
  Mobile: Temporary Fixed Ground Operations, Kirkwood, NY

- **BAE SYSTEMS INFORMATION AND ELECTRONIC SYSTEMS INTEGRATION INC. WH2XZR 0077-EX-PL-2015**
  New experimental to operate on select frequencies between 449.30 MHz and 6560.00 MHz for testing antennas.
  Fixed: Merrimack (Hillsborough), NH

- **BALL AEROSPACE AND TECHNOLOGIES CORPORATION WH2XZY 0465-EX-PL-2015**
  New experimental to operate on 1575.42 MHz for testing radionavigation satellite service (RNSS) equipment and systems.
  Fixed: Boulder (Boulder), CO

- **BOEING COMPANY, THE WI2XAP 0463-EX-PL-2015**
  New experimental to operate on 1770.00, 2375.00 and 5560.00 MHz to support ground testing required to verify the operational capabilities of the LITENING Targeting POD equipment.
  Fixed: Oklahoma City (Oklahoma), OK

- **BOEING COMPANY, THE WI2XAO 0529-EX-PL-2015**
  New experimental to operate in 29.00 - 31.00 GHz for development and testing of a SATCOM.
  Fixed: Kent (King), WA

- **BOEING COMPANY, THE WI2XAG 0638-EX-PL-2015**
  New experimental to operate on 1575.42 MHz for testing radionavigation satellite service (RNSS) equipment and systems using.
  Fixed: Aberdeen (Harford), MD

- **BOEING COMPANY, THE WI2XBK 0703-EX-PL-2015**
  New experimental to operate on 156.85, 159.50, 161.60, 162.00 MHz to perform very short term antenna and communications function checks of rotorcraft platforms under development
  Fixed & Mobile: San Tan Valley and Mesa, AZ

- **BOEING COMPANY, THE WI2XCI 0746-EX-PL-2015**
  New experimental to operate in 824.00 - 849.00 MHz for testing of a ground cellular system on board commercial aircraft.
  Mobile: Everett, WA

- **BLACKSKY GLOBAL, LLC WH2XPT 0829-EX-PL-2014**
  New experimental to operate in 401.00 - 402.00 MHz and on 8080.00 MHz for testing a Cubesat.
  Mobile Nongeostationary, SP

- **CARNEGIE MELLON UNIVERSITY WI2XCB 0726-EX-PL-2015**
  New experimental to operate on 1730 MHz and 2130 MHz for cloud based wearable device research.
  Fixed: Pittsburgh (Allegheny), PA

- **FAIL-SAFE SOLUTIONS, LLC WH2XYK 0533-EX-PL-2015**
  New experimental to operate on 5.45 and 5.845 GHz to support for UAS-RFTR training.
  Fixed & Mobile: Inside confines of Camp Gruber, Camp Gruber, OK

- **GENERAL DYNAMICS WI2XAK 0636-EX-PL-2015**
  New experimental to operate in 4400-4820 MHz and 4942.5-4987.5 MHz to support a program of research and experimentation focused on delivering products for various government agencies.
  Fixed: Dedham, MA

- **GENERAL DYNAMICS MISSION SYSTEMS WI2XBE 0491-EX-PL-2015**
  New experimental to operate in 729-746 MHz to test and improve upon Tactical LTE communications for the warfighter and/or Public Safety FirstNet system.
  Fixed: Cookstown (Burlington), NJ

- **GOOGLE INC. WH2XZP 0613-EX-PL-2015**
  New experimental to operate on 1227.6 MHz and 1575.42 MHz to operate a GPS reradiating kit to test GPS receivers.
  Fixed: Alameda (Alameda), CA

- **HARRIS CORPORATION WI2XBM 0562-EX-PL-2015**
  New experimental in 758-768 MHz and 788-798 MHz for product integration and field testing of a tactical LTE cellular system.
  Fixed: Piseco, Geneseo, Penn Yan and Rochester, NY

- **HELFRICK, ALBERT D WI2XBV 0727-EX-PL-2015**
  New experimental to operate in 465-480 kHz for development of electronic circuits and techniques for signal processing.
  Fixed: Deland (Volusia), FL

- **IMSAR LLC WH2XZC 0568-EX-PL-2015**
  New experimental to operate in 13.25 - 13.40 GHz to perform Synthetic Aperture Radar (SAR) testing.
  Mobile: Within the State of Utah

- **IMSAR LLC WH2XZE 0594-EX-PL-2015**
  New experimental to operate in 769.00 - 788.00, 799.00 - 960.00, 1625.00 - 1850.00 MHz and 15.60 - 17.10 GHz to test a Synthetic Aperture Radar (SAR) system.
  Mobile: On aircraft at 6,000 feet AGL or below, Roseville, CA

- **INTEL INC. WI2XAX 0675-EX-PL-2015**
  New experimental to operate in 27.50 - 28.50 GHz to test broadband wireless devices.
  Mobile: Hillsboro, OR; Santa Clara, CA

- **INTEL INC. WI2XAY 0678-EX-PL-2015**
  New experimental to operate in 3400.00 - 4200.00 MHz to test broadband wireless devices.
  Mobile: Radius of 400 meters on Intel Santa Clara campus, Santa Clara, CA

- **JOSEPH E. LOWE WI2XBQ 0729-EX-PL-2015**
  New experimental to operate To in 135.70 - 137.80 and 472.00 - 479.00 kHz for test antenna and RF propagation studies.
  Fixed: Eureka (Humboldt), CA

- **LOCKHEED MARTIN CORPORATION WH2XUI 0297-EX-PL-2015**
  New experimental to operate in 3000.00 - 3900.00 MHz to test radar systems.
  Mobile: Moorestown, NJ

- **LOCKHEED MARTIN CORPORATION WH2XWC 0381-EX-PL-2015**
  New experimental to operate in 10 GHz and 17 GHz bands to test microwave equipment.
  Mobile: Moorestown, NJ

- **LOCKHEED MARTIN CORPORATION WI2XBC 0666-EX-PL-2015**
  New experimental to operate in 9200.00 - 10200.00, 10700.00 - 11700.00 and 12700.00 - 13700.00 MHz to test signal waveform characteristics in HF.
  Mobile: Syracuse and Cazenovia (Onondaga), NY

- **MASCO CORPORATION WI2XBY 0615-EX-PL-2015**
  New experimental to operate on 1575.42 MHz for testing radionavigation satellite service (RNSS) equipment.
  Fixed: Romulus (Wayne), MI

- **NATIONAL TEST PILOT SCHOOL WI2XBS 0609-EX-PL-2015**
  New experimental to operate in 5091.00 - 5150.00 MHz for flight test training.
  Mobile: 40nm of KMHV from ground to 50000ft MSL, Mojave, CA

- **NIIVATECH WI2XBB 0676-EX-PL-2015**
  New experimental to operate on 16.4 GHz to use Radar to study snow for avalanche research.
  Fixed: Snowbird (Salt Lake), UT

- **NORTHROP GRUMMAN SYSTEMS CORPORATION WI2XAL 0654-EX-PL-2015**
  New experimental to operate on 73.5 GHz to test an E-band transceiver for potential use in RF backbone applications.
  Fixed: Redondo Beach, Los Angeles and Newhall (Los Angeles), CA

- **ORBCOMM INC. WI2XCH 0750-EX-PL-2015**
  New experimental to operate on 1575.42 MHz for testing radionavigation satellite service (RNSS) equipment and systems.
  Fixed: Rochelle Park (Bergan), NJ

- **ORBITAL ATK WI2XCG 0744-EX-PL-2015**
  New experimental to operate in 6.725-8.5 GHz for indoor testing of satellite equipment.
  Fixed: Dulles (Loudoun), VA

- **QUALCOMM TECHNOLOGIES, INC. WI2XAW 0677-EX-PL-2015**
  New experimental to operate in 3800.00 - 4200.00 MHz to simulate RF coverage and to test equipment.
  Fixed: San Diego (San Diego), CA

- **RAYTHEON IDS WH2XVL 0354-EX-PL-2015**
  New experimental to operate in 2000.50 - 2310.00 MHz to demonstrate high speed data line of sight.
  Fixed: Pelham (Jillsborough), NH; White Sands Missile, NM

- **RAYTHEON SAS WH2XZN 0617-EX-PL-2015**
  New experimental to operate on frequencies between 1380.00 MHz and 9690.00 MHz to test Bamboo Cay radar.
  Fixed: El Segundo and Palos Verdes (Los Angeles), CA

- **SCRIPPS INSTITUTION OF OCEANOGRAPHY WI2XAA 0539-EX-PL-2015**
  New experimental in 161.975-162.025 MHz to transmit essential safety broadcast to mariners.
  Fixed: Santa Barbara Channel, within 32 km, and Pacific Ocean,, within 32 km

- **SOUNDTRONICS WIRELESS WH2XYH 0461-EX-PL-2015**
  New experimental to operate in 952-960 MHz for equipment testing.
  Mobile: Los Angeles, CA

- **SPECTRUM BRIDGE INC WI2XBT 0689-EX-PL-2015**
  New experimental to operate in 470-608 MHz and 614-698 MHz to extend an existing cable plant (DOCSIS) wirelessly, to expand the reach of the Cable business to customers who cannot currently be economically served, and to determine if this technology can provide a viable return path for these users for various 2 way services and applications.
  Fixed: Fanning Springs (Dixie), FL

- **SPIRE GLOBAL, INC. WI2XBX 0684-EX-PL-2015**
  New experimental to operate in 400-403 MHz, 2.02-2.025 GHz and 2.4-2.48 GHz for seven new satellites in the Lemur-2 satellite system.
  Fixed & Mobile: San Francisco (San Francisco), CA; Richardson (Dallas), TX; Boca Raton (Palm Beach), FL; Anchorage (Anchorage), AK; Juneau (Juneau), AK; Hartford (Hartford), CT; Ellicott (El Paso), CO; Naalehu (Hawaii), HI; Piti, GU; Saint Croix, VI

- **SRI INTERNATIONAL WI2XAN 0668-EX-PL-2015**
  New experimental to operate in 9200-10500 MHz for testing of a prototype tower-based radar system.
  Mobile: Ann Arbor, MI

- **SYSTEM & TECHNOLOGY RESEARCH WH2XXZ 0412-EX-PL-2015**
  New experimental in 72-73 MHz, 74.6-74.8 MHz, 75.2-76 MHz, 420-450 MHz and 929-960 MHz for performing field measurements to support the modelling of electromagnetic wave propagation in a variety of forested environments.
  Mobile: Parking lot near STR offices in Woburn, MA

- **TARANA WIRELESS INC. WI2XAF 0610-EX-PL-2015**
  New experimental to operate in 3550.00 - 3700.00 MHz to demonstrate the prototype equipment.
  Fixed: Santa Clara, Beverly Hills, Los Angeles, Le Verne and Berkeley, CA

- **TECOM INDUSTRIES, INCORPORATED WI2XCF 0717-EX-PL-2015**
  New experimental to operate in 29.00 - 31.00 GHz for the operation of KA STREAM5000 system.
  Mobile: Throughout the US

- **TOGGLE COMMUNICATIONS LLC WI2XAJ 0642-EX-PL-2015**
  New experimental to operate in frequency bands between 6.795 and 16.36 MHz for testing high frequency radio bands.
  Fixed: Wesley Hills (Rockland), NY; Yorkville (Kendall), IL

- **UNIVERSITY OF MICHIGAN WH2XYU 0430-EX-PL-2015**
  New experimental to operate on 437.485 and 3404.00 MHz to test a CubeSat.
  Mobile: Nongeostationary Space Orbit

- **UNIVERSITY OF TEXAS AT DALLAS ELECTRICAL ENGINEERING WI2XBW 0734-EX-PL-2015**
  New experimental to operate in 71.00 - 76.00 and 81.00 - 86.00 GHz to conduct research involving light of sight communication using a millimeter wave E-band radio.
  Fixed & Mobile: Richardson (Collin), TX

- **XEROX CORPORATION WI2XBO 0679-EX-PL-2015**
  New experimental to operate on 22 GHz and 24 GHz for testing RFID technology
  Fixed: Palo Alto (Santa Clara), CA; Webster (Monroe), NY; New York (New York), NY; Shakopee (Scott), MN; Fort Mill (York), SC